

PLEKHANOV, P.N.

PLEKHANOV, P.N., inzhener; BORETSKIY, A.A., dotsent, redaktor.

[Stakhanovite methods of trimming and cleaning steel castings]
Stakhanovskie priemy obrubki i ochistki stal'nykh otlivok. Sverdlovsk, Gos. nauchno-tekhn. izd-vo mashinostroit. i sudostroit. lit-ry [Uralo-Sibirskoe otd-nie] 1953. 46 p. (MLRA 7:3)
(Steel castings)

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001341200016-6

PLEKHANOV, P. N.

"Technology of the Heat Treatment of Large Castings." From the book, "Heat Treatment and Properties of Cast Steel." edited by N. S. Kreshchanovskiy, Mashgiz, Moscow 1955.

VASILEVSKIY, P.F., kand. tekhn. nauk; DEMAKOV, A.Ye.; PLEKHANOV, P.M.;
ASSONOV, A.D.; VLASOV, V.I.; KANEVSKAYA, T.B.; SHLENTSOV, K.G.;
RYZHIKOV, A.A.; KUBTSOV, N.N., zasl. deyatl' nauki i tekhniki
RSFSR, doktor tekhn. nauk prof., red.; MAKTENS, S.L., red. izd-
va; EL'KIND, V.D., tekhn. red.

[Handbook on founding; shaped steel casting] Spravochnik litei-
shchika; fasonnoe stal'noe lit'e. [By] P.F.Vasilevskii i dr.
Pod obshchei red. N.N.Rubtsova. Moskva, Mashgiz, 1962. 611 p.
(MIRA 15:6)

(Founding. Handbooks, manuals, etc.)

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001341200016-6

FLEKIL'NOV, P. N.

Stakhanovite methods of trimming andcleaning steel castings) Sverdlovsk, Gos.
nauchno-tekhn izd-vo mashinostroit. i strogo-stroit. lit-ry Uralskii trud
1953 (54-29067)

TS 320. P55

PLEKHANOV, P.N.

25(1) TABLE I BOOK INFORMATION

807/1745

Russko-anglicheskaya obshcheshche stol'by pomekhnicheskogo i vysokotekhnicheskogo pomekhnicheskogo priborostroeniya

Russko-tekhnicheskaya literatura po priborostroeniiu. Advanced Technology of Chemical Production. (Advanced Technology of Chemical Production) 1973, Moscow, 1973, 122 p., 6,000 copies printed.

Ed. V. K. Serebryakov, Tech. Ed. I. M. V. Borkovskiy, Material A. Ya. Arshinov, L. I. Sosulin, (Fore. Ed.) S. G. Zaslavskiy, and S. V. Polyak; Chita, Ed. T. E. Serebryakov, Author, I. V. E. Serebryakov, Publisher.

PURPOSE: This book is intended for engineering personnel of foundries, and workers of scientific research organizations.

CONTENTS: This book is a collection of articles and papers given by representatives of plants, scientific research institutes, and universities of the Soviet industry at a conference organized by the Ministry of Chemical Production [Ministry of Chemical Production] and the All-Union Scientific Society of Chemical Engineers and Chemists of the Academy of Sciences, Moscow. The book is divided in chronological order into four parts: 1) General conditions, use of materials, methods of casting, etc.; 2) Materials preventing corrosion, problems of organization and automation of production; 3) Problems of welding, and 4) New methods developed by the author. A method developed by the author which he called "cold electrode welding" uses an arc-electrode with an indirect arc action. The electrode has the advantage of being able to act directly on the welded metal, producing between the electrode and the build-up metal, such welding features as the formation of a transition layer 10-15 times thicker than the base metal, or limiting the formation of a transition layer less than 0.2 mm, making for easy mechanical working. No pores/pitias are mentioned.

TABLE OF CONTENTS:

Advanced Technology of Casting Production (Cont.) 807/1745

Vlasov, N. D., Engineer, Cold, Electric Welding of Cast Iron Using Metal Electrodes With Indirect Arc Action.

Slobodchikov, E. M., Candidate of Technical Sciences. Improving Working Conditions in Foundries

MECHANIZATION OF FOUNDRY PROCESSES

Bolotnikov, A. I., Engineer. Mechanization of Production Methods [Investigations Casting] 105

Tsikov, N. D., Candidate of Technical Sciences. Overall Mechanization and Automation of Foundry Processes 126

Plakhov, F. N., Engineer. Mechanization of the Foundry Stripping and Cleaning Shops of the Coal-Machine-Building Plant 131

Solntsev, O. S., Engineer. Rolling and Shake-out Production Lines 137

cont'd 2/6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001341200016-6

PLEKHANOV, V. M.

"Calculation of a Skin with Filler for Transport of Fuel and Stability." Thesis for
degree of cand. Technical Sci. Subm. May 52, Moscow Order of Lenin Aviation Institute
imeni Serge Grishchenko

Summary Tl, 4 Sep 52, Dissertations Presented for Degrees in Science and Engineering
in Moscow in 1950. From Yechernyaya Moskva. Jan-Dec 1950.

SELEZNEV, K.P., kand. tekhn. nauk, dotsent; TARANIN, A.I., inzh.;
PLEKHANOV, V.A., inzh.

Use of electrical modeling in the determination of temperature
fields in the components of steam and gas turbines.
Energomashinostroenie 9 no.10:1-5 0 '63. (MIRA 16:10)

L 29252-66 EWP(j)/EWT(m) RM/WW/JW
ACC NR: AP6019314

SOURCE CODE: UR/0286/65/000/012/0022/0022
34 B

INVENTOR: Levin, A. M.; Glazov, A. N.; Vershinin, V. I.; Danilov, P. M.;
Plekhanov, P. S.; Pashchenko, V. Ye.; Lachinov, S. S.; Kuznetsov, L. D.; Rabina, P. D.;
Levitskaya, T. T.; Tatarov, F. S.; Lipinskaya, V. P.; Chernyayeva, Z. M.; Alekseyeva, Z. S.

ORG: none

TITLE: Steel for manufacturing ammonia synthesis catalyster. Class 18, No. 171877

SOURCE: Byulleten' izobreteniij i tovarnykh znakov, no. 12, 1965, 22

TOPIC TAGS: steel, ammonia, inorganic synthesis, catalysis

ABSTRACT: A steel for manufacturing ammonia synthesis catalysters is distinguished by an increased catalyster activity and has the following chemical composition: 0.10% C, 1.0-2.0% Al, 0.05% Mn, 0.008% P, 0.008% S, 0.05% Cr, 0.10% Cu, 0.05% Ni, 0.40% Si, balance--iron. [JPRS]

SUB CODE: 11, 07 / SUBM DATE: none

UDC: 669.14/15

Card 1/1 10/

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001341200016-6

PIAKHANOV, P. G.

Conditioned Response

Developing conditioned reflexes in rabbits. Inst. v zhivotnykh, S., Biotekhnika. 1952.

Monthly List of Russian Accessions, Library of Congress
December 1952. UNCLASSIFIED.

PLEKHANOV, N. I.

PLEKHANOV, N. I. --"Reflex Reactions from the Small Intestine in the Presence of Its Inflammation. (Experimental Investigation)." Min. Higher Education USSR, Leningrad Veterinary Inst, Leningrad, 1955. (Dissertation for the Degree of Candidate in Biological Sciences)

SO: Knizhnaya Letopis', No 35, 1955

PLEKHANOV, N.

How to teach a soldier to swim. Voen. vest. 42 no. 6/60-63
Je '62. (MIRA 15:6)
(Swimming)

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001341200016-6

The biuret reaction as a titrimetric method and its application for the characterization of individual proteins
 M. I. Plekhanov. *J. Applied Chem.* (U. S. S. R.) 13,
 620 (in French, 629) (1940). An alk. soln. of protein is
 titrated with 0.25 M Cu(OAc)₂ until turbidity of the soln.
 becomes the same as that of a standard soln. The standard
 is prep'd. by mixing 0.05 mole of Cu(OAc)₂ with an alk.
 soln. in vol. equal to that of unknown soln. The error of
 the method is 1.7%. A. A. Podgorny

ENTOMOLOGICAL LITERATURE CLASSIFICATION

卷之三

PLEKHANOV, M.

USSR/Farm Animals - Small Horned Stock.

Q-4

Abs Jour : Ref Zhur - Biol., No 1, 1958, 2592

Author : M. Plekhanov

Inst : -

Title : Experiment in Producing a Highly Productive Herd of Sheep.

Orig Pub : S. kh. Sibiri, 1957, No 4, 59-66

Abstract : Since 1952, work has been in progress in the kolkhoz imeni Karl Marx Omsk Oblast', to convert Siberian sheep with coarse wool into the meat-and-wool type of animal. The coarse-wool sheep were cross bred with rams of the Prekos breed. The offsprings were cross-bred with Lincoln rams. The hybrid lambs obtained from a cross breeding in which three breeds were used were large and matured earlier than the offsprings from a cross breeding in which only two breeds were used. At the first shearing the length of the wool of lambs-offsprings of three breeds was 15-16 centimeters, in lambs which were offsprings of two breeds, the

Card 1/2

L 07266-67

ACC NR: AT6025306

source with a transfer function such that the entire pulse-width modulator can be replaced by equivalent pulse-amplitude modulator. A simple formula, $K < 4\lambda/T + 2$, is derived for the gain of the system required to keep the system stable (T is the modulation period and λ is a combination of system constants). This formula shows that in the range of modulation periods which are most probable for systems of this type (1 - 10 sec), the system stability depends little on T . This relation can be used for a tentative choice of transfer coefficients of the elements contained in the control system. Orig. art. has: 1 figure and 18 formulas.

SUB CODE: 18/ SUBM DATE: 27Dec65/ ORIG REF: 002

Card 2/2 *plow*

L 07266-67 EWT(d)/EWT(m)/EWT(v)/EWT(k)/EWT(h)/EWT(l) GD
ACC NR: AT6025306 SOURCE CODE: UR/0000/66/000/001/0060/0064

AUTHOR: Kuvshinnikov, B. A.; Plekhanov, L. P.

ORG: none

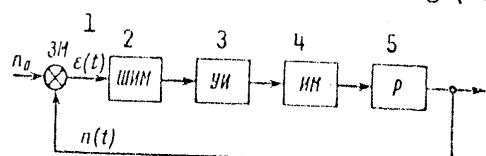
TITLE: Stability conditions for a pulsed control system for regulator power

SOURCE: Moscow. Inzhenerno-fizicheskiy institut. Upravleniye yadernymi energeticheskimi ustanovkami (Control of nuclear power plants), no. 1. Moscow, Atomizdat, 1966, 60-64

TOPIC TAGS: nuclear reactor control, control system stability, reactor neutron flux, pulse width modulation, pulse amplitude modulation

ABSTRACT: A simple single-loop system is described (Fig. 1). It is assumed that the modulator and the actuating mechanism of the power regulator have no time lag (motor

Fig. 1. Block diagram of pulsed control system. 1 - Power set point, 2 - pulse-width modulator, 3 - pulse amplifier, 4 - actuating mechanism, 5 - reactor.



equipped with efficient brake). The delayed neutrons are replaced by a single equivalent group. The pulse-width modulator is represented as a set of a single-pulse

PLEKHANOV, L.G.

Separating high purity thallium from a sulfate solution by the method
of two-stage electrolysis. Izv. AN Kazakh SSR. Ser. gor. deka met.,
stroi. i stroimat. no. 4:38-42 '57. (MIRA 11:4)
(Thallium) (Electrolysis)

SOV/137-58-9-18796

The Anode Process and the Role of Cresol in the Electric Precipitation (cont.)
 complexes with Tl; 2) C exercises only an indirect influence upon the process at the cathode; 3) C prevents the formation of Tl^{3+} by adsorption on the anode, with subsequent combination with atomic O.

1. Thallium sulfates--Electrolysis 2. Thallium--Separation 3. Electrolysis
--Analysis 4. Phenols--Performance

Card 2/2

SOV/137-56-9-18796

Translation from: Referativnyy zhurnal, Metallurgiya, 1958, Nr 9, p 92 (USSR)

AUTHOR: Plekhanov, L.G.

TITLE: The Anode Process and the Role of Cresol in the Electric Precipitation of Thallium From Sulfate Solution (Anodnyy protsess i rol' krezola pri elektroosazhdennii talliya iz sernokislogo rastvora)

PERIODICAL: Izv. AN KazSSR. Ser. gorn. dela, metallurgii, stroi-va i stroymaterialov, 1957, Nr 5 (16), pp 61-66.

ABSTRACT: A clarification of the causes of oxidation of Tl^+ and Tl^{3+} ions in the process of electrolysis is made, as well as of the mechanism by which cresol (C) acts as an inhibitor of the process of oxidation. An investigation of the potential curve of the Pt anode and the data of qualitative analysis of the electrolyte result in the conclusion that the cause of formation of Tl^+ ions in the electrolyte is not anodic oxidation but oxidation of Tl^+ by atomic O. The mechanism of the inhibiting influence of C upon the oxidation of Tl^+ was studied by taking volt-ampere curves in pure solutions of the Tl sulfate and in solutions with addition of C. The following conclusions are drawn: 1) C does not form

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SOV/137-58-7-14585

Recovery of High-purity Thallium from Sulfate Solution (cont.)

cathode. After completion of the stage of purification of the solution, a Cu cathode replaced the Pt cathode, electrodeposition of the Tl being made upon the new cathode. Electrodeposition was performed with an asymmetrically varying current obtained by superimposing a sine-wave 50-cycle current on a D-C current, the cathode cd of the D-C current being 300 amps/m² and that of the A-C current 100 amps/m². The advantages of the method are 1) elimination of the need for supplementary chemical purifications of the initial Tl sulfate solution, and 2) the possibility of increasing the purity of cathodic Tl to any desired level.

1. Thallium--Electrodeposition 2. Thallium Recovery 3. Chemical impurities
--Electrolysis

O.B.

Card 2/2

SOV/137 58 7 14585

Translation from: Referativnyy zhurnal, Metallurgiya, 1958, Nr 7, p 92 (USSR)

AUTHOR: Plekhanov, L.G.

TITLE: Recovery of High-purity Thallium from Sulfate Solution by Two-stage Electrolysis (Poluchenije talliya vysokoy chistoty iz sulfatnogo rastvora metodom dvukhstadijnogo elektroliza)

PERIODICAL: Izv. AN KazSSR. Ser. gorn. dela, metallurgii, str-va i stroymaterialov, 1957, Nr 4 (15), pp 38-42

ABSTRACT: A description is presented of a method of recovering high-purity (99.997%) Tl by double electrolysis, the first stage of which consists of electrolytic removal of impurities from the $Tl_2(SO_4)_3$ solution and the second of electrodeposition of Tl. The electrolytic cleaning procedure (with Pt electrodes) was applied to a $Tl_2(SO_4)_3$ solution containing 35 g Tl/liter, 12 mg Cu/liter, 4 mg Pb/liter, 4 mg Cd/liter, and 10 g cresol/liter to prevent oxidation of Tl^+ to Tl^{3+} . On the basis of an experimentally derived curve of variation in cathode potential in a solution of this composition, the cathode potential was held at -0.31 v, which ensured purification at maximum speed and eliminated the possibility of discharge of the Tl^+ ions on the

PONOMAREVA, Ye.I.; SVIRCHEVSKAYA, Ye.G.; PLEKHANOV, L.G.

Recovering arsenic from speiss. Trudy Inst.met. i obogashch.
1:53-57 '59. (MIRA 12:5)
(Arsenic) (Nonferrous metals--Metallurgy)

YUNUSOV, S.Yu., akademik; YULDASHOV, P.; PLIKHANOVA, N.V.

Study on alkaloids from the aboveground portion of Vinca erecta
Rgt. et Schmalh. Dokl. AN Uz. SSR no.7:13-15 '56.

(MIRA 12:6)

1. Akademiya nauk UzSSR (for Yunusov).
(Alkaloids) (Vinca)

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001341200016-6

YERIN VICH, Yadviga Viaduktovna; LIPMANNA, Iosif, red.

Prague of real government in the European project.
decentralization, autonomy, participation, mutual
européiskikh stran narodnoi demokratii. Komka, Izd-
vo "Nauklicheskaiia literatura", 1991, 176 p.

(Vid. 1727)

PLEKHANOV, N.I.

Mechanism of chemoreception. Report No.1: Correlation between the concentration of acetylcholine and the reflexogenicity of cholinoreceptors. Biul. eksp. biol. i med. 50 no.7:17-20 Jl '60.

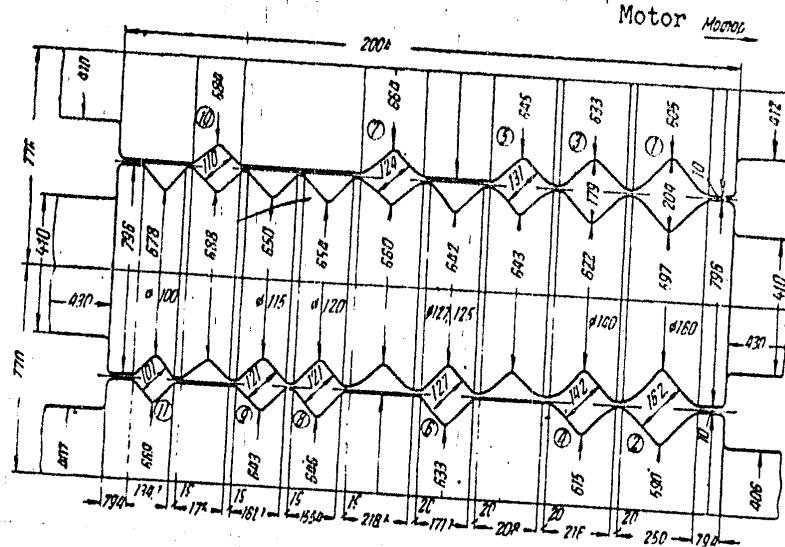
(MIRA 14:5)

1. Iz kafedry khimii i biokhimii (zav. A.L.Bugayev) Khar'kovskogo zootekhnicheskogo instituta (dir. - chlen-korrespondent Vsesoyuznoy akademii sel'skokhozyaystvennykh nauk imeni V.I.Lenina prof. M.I.Kniga). Predstavlena deystvitel'nym chlenom AMN SSSR V.V.Parinym.
(INTESTINES--INNERVATION) (CHOLINE)

S/148/60/000/008/003/018
A161/A029

Investigation of Metal Deformation During Rolling on a "750" Mill With the Use
of Radioactive Isotopes

Figure 2. Calibration
of the Passes of the
Second Stand of the
Mill.

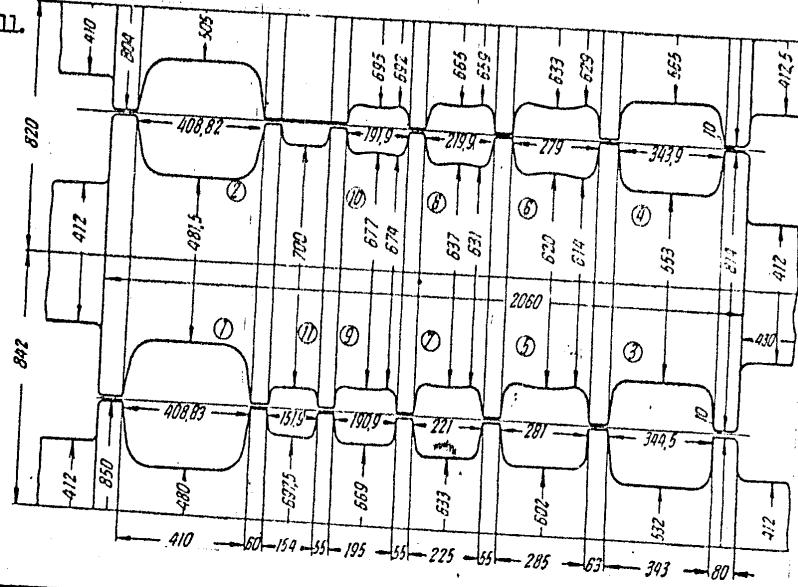


Card 5/5

S/148/60/000/008/003/018
A161/A029

S/148/60/000/008/003/0
A161/A029
Investigation of Metal Deformation During Rolling on a "750" Mill With the Use
of Radioactive Isotopes

Figure 1. Calibration
of the Passes of the
First Stand of the Mill.



Card. 4/5

S/148/60/000/008/003/018
A161/A029

Investigation of Metal Deformation During Rolling on a "750" Mill With the Use
of Radioactive Isotopes

smaller grip angle. 4) The local non-uniformity of deformation is considerable, particularly in the first half of the rolling process. This causes separated layers under the billet surface, particularly if the metal has a low plasticity. The magnitude of local deformation non-uniformity depends also on the h_{mean}/l ratio and the grip angle; when they increase, the deformation non-uniformity increases, and the detrimental effect of large grip angles is the stronger the higher is the h_{mean}/l ratio. 5) In high-deformation areas, changes of the free-spreading index $\frac{\Delta b}{\Delta h}$ are determined mainly by changes of the h_{mean}/l ratio. In passes with unrestricted widening, the width deformation also changes with the h_{mean}/l ratio and the grip angle, and positive as well as negative deformation is possible. 6) The pass system of the "750" mill must be changed. The following persons took part in the investigation: G.A. Sakharov (deceased), P.G. Marinin and I.V. Manchevskiy. There are 6 figures, 3 tables and 5 Soviet references.

ASSOCIATION: Sibirskiy metallurgicheskiy institut (Siberian Metallurgical Institute)

SUBMITTED: November 30, 1959

Card 3/5

S/148/60/000/008/003/018
A161/A029

Investigation of Metal Deformation During Rolling on a "750" Mill With the Use
of Radioactive Isotopes

and width was very different in separate layers in both stands. The observations are discussed in detail and illustrated by figures and tables. Autoradiograms show the deformation after each of the 15 passes in the billet mill. The effect of the ratio h_{mean}/l (mean height of the deformation area to grip arc length) [Abstractor's note: Subscript mean is a translation from the Russian *sr* (*sredniy*)] and of the grip angle on the deformation was determined (noticed previously by A.I. Tselikov in Reference 2). The following conclusions were drawn: 1) The isotope method makes possible the observation of deformation without disturbing the process. 2) The deformation is distributed very non-uniformly in height and width in box passes as well as in the rhomb-square system. 3) The height deformation variations in separate metal zones in separate passes depend on changes of h_{mean}/l and grip angle. At high h_{mean}/l high deformation takes place in the outer zone and low deformation in the central zone at all grip angles; the deformation gradually evens out in all zones with reducing the h_{mean}/l ratio, and at a h_{mean}/l ratio lower than 1.7 the center is deformed more than the outer layer. An increasing grip angle at constant h_{mean}/l ratio raises the deformation in the outer layers, and hence the deeper metal layers are worked better with

Card 2/5

S/148/60/000/008/003/018
A161/A029

AUTHORS: Chelyshev, N.A.; Kobyzev, V.K.; Plekhanov, N.G.; Bogdanova, N.G.; Yampol'skiy, A.M.

TITLE: Investigation of Metal Deformation During Rolling on a "750" Mill
With the Use of Radioactive Isotopes

PERIODICAL: Izvestiya vysshikh uchebnykh zavedeniy. - Chernaya metallurgiya,
1960, No. 8, pp. 48 - 58

TEXT: The investigation was carried out with the use of S³⁵ isotope added to a 7-ton ingot of 50Г (50G) killed steel during rolling on the "750" two-stand two-high billet mill of the Kuznetskiy metallurgicheskiy kombinat (Kuznetsk Metallurgical Combine). The mill has box passes in the first stand (Fig. 1) and a rhomb-square pass system in the second (Fig. 2). Three distinct zones were produced in metal by adding the isotope after the formation of a crystallized crust in the ingot mold, and again 10 min later after the formation of another solid layer. The first isotope addition had an activity of 950 mCu, the second the double activity, so as to obtain three zones: a non-radioactive outer layer and two inner zones of different radioactivity. The observed deformation in height

Card 1/5

ACC NR: AR6032305

film-forming capacity of each polymer was analyzed. The polymer formed films¹⁵ were found to be brittle. The solubility of the obtained polymers in various organic solvents was determined. [Translation of abstract]

SUB CODE: 07/

Card 2/2

ACC NR: AR6032305 SOURCE CODE: UR/0081/66/000/013/S047/S047

AUTHOR: Iskenderov, M. A.; Plekhanova, K. I.; Adigezalova, N.

TITLE: Polyesters with a silicon heteroatom

SOURCE: Ref. zh. Khimiya, Part II, Abs. 13S281

REF SOURCE: Uch. Zap. Zerb. un-t. Ser. khim. n., no. 4, 1965, 71-78

TOPIC TAGS: polymerization, polymer, polyester, silicon polymer, film

ABSTRACT: The synthesis of polyesters containing a silicon atom in their molecular structure was carried out by the method of interphase condensation polymerization (polycondensation). Diethyldichlorosilane sodium salts of dicarbonylic acids (sebacid, adipic, terephthalic, isophthalic) or the sodium salt of dihydroxynaphthalene were used as initial substances. Solutions of 21 grams of sodium terephthalate in 100 ml of distilled water and 15.7 g of diethyldichlorosilane in 100 ml benzene were used. The reaction took place at 20C for 7-15 minutes with mixing. A study was made on the physicochemical properties of polymers, i. e. the infrared spectrum, dielectrical properties, and the molecular weight were determined. The

Card 1/2

FLEKHOV, N.D.

Precast and prestressed reinforced concrete construction elements
of industrial buildings. Bet. i zhel.-bet. no. 9:431 S'60.
(MIRA 13:9)

1. Chlen-korrespondent Akademii stroitel'stva i arkhitektury
USSR.
(Ukraine--Precast concrete construction)

DOSYCHEV, A.V.; LOPATIN, S.A.; MYASNIKOV, L.M.; PLEKHANOV, N.A.; KONYUKH, G.D.

Redesigning of the electric power supply network for carbide furnaces.
Prom.energ. 16 no.5:15-16 My '61. (MIRA 14:7)
(Electric furnaces)

PLEKHANOV, N.

PERVOV, S.; PLEKHANOV, N.

Changing taximeters to operate according to the new tariff and the
new prices. Avt.transp. 38 no.11:20-23 N '60. (MIRA 13:11)

1. Nachal'nik taksometrovoy masterskoy Upravleniya taksomotornogo
transporta Mosgorispolkoma (for Pervov). 2. Nachal'nik laboratori
passazhirskikh avtomobilley Nauchno-issledovatel'skogo instituta
avtomobil'nogo transporta (for Plekhanov).

(Taxicabs)

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001341200016-6

PLEKHOV, M-Ye., kana. uskor. nauk, dotsent

Campaign of the CPSU for the electrification of railroad
transportation. Trudy Ural. elektromekh. inst. inzh. zhel. dor.
transp. no.5:3-14 '62. (MIRA 17:8)

PLEKHANOV, M. P.

Cand Agr Sci - (diss) "Experience in the development of high-productive herds of sheep in the Sukhovskiy Sovnarkhoz of the Gor'kovskiy Rayon in the Omskaya Oblast." Omsk, 1961. 16 pp; (Ministry of Higher and Secondary Specialist Education Kazakh SSR, Alma-Ata Zooveterinary Inst); 175 copies; free; (KL, 5-61 sup, 198)

PLEKHANOV, M.I. [Pliekhanov, M.I.]

Reactivity of the cholinoreceptors in relation to the acetyl-choline concentration. Fiziol. zhur. [Ukr.] 10 no.1:119-120
'64. (MIRA 17:8)

1. Khar'kovskiy zootekhnicheskiy institut.

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001341200016-6

SUMAROV, I.M.; OSVAPERO, R.R.; PLEKHOV, V.I.

Efficient model-type method of linear coding. Inventor, Sumarov, I.M.
nedr. 29 no. 2135-37. M. 1/4 (1971)

1. Model-type kaudelopara kodirovaniye, sozdannye na osnovanii
predstavleniya kodirovaniya v obrazetskoye kodirovaniye, s
uchitivayushchim reshetku i posrednye reshetki.

18 5100

S/137/61/000/006/021/032
A006/A101

AUTHOR: Flekhanov, L.G.

TITLE: Electrolytic refining of indium in a three-electrode electrolyzer

PERIODICAL: Referativnyy zhurnal Metallurgiya, no. 6, 1961, 20, abstract 63170
("Izv. AN KazSSR. Ser. metallurgii, obogashcheniya i ogneuporev",
1960, no. 2 (8), 40-42 (Kaz. summary))

TEXT: For refining crude In, an electrolytic cell was designed and tested. It consists of one bath where electrochemical refining from impurities of the electrolyte and electrolytic deposition of the base metal was carried out simultaneously. The cell is divided into two compartments by a copper-grid diaphragm. The anode of In to be refined is placed in one compartment, and a Pt-cathode in the other one. The experiments were made in sulfuric acid electrolyte with an acidity of 5 g/l H₂SO₄ at 0.3 v grid potential; the current density of the main cathode was 150 amp/m². After 8-hour refining of crude In (96.8% In), Ir of 99.9% purity was obtained.

[Abstracter's note: Complete translation]

G. Svetitseva

Card 1/1

PLEKHANOV, L.G.; KUNAYEV, A.M.

Laboratory equipment to obtain an asymmetrical alternating current. Trudy Inst. met. i obogashch. AN Kazakh. SSR 4:91-94
'62. (MIRA 15:8)
(Electrochemistry, Industrial--Equipment and supplies)
(Electric currents, Alternating)

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001341200016-6

PLEKHANOV, L.G.

Electrolytic precipitation of lead and zinc from alkali solutions. Trudy Inst.met. i obogoshch. 1:95-101 '59.
(MIRA 12:5)
(Lead--Electrometallurgy) (Zinc--Electrometallurgy)

18(54-3) PLEKHANOV, L.G.

PHASE I BOOK EXPLOITATION SOW/2094
Akademicheskay Akademiya Nauk Kazakhskoy SSR.
Obogashcheniya

Sredy, G. I. (Transactions of the Institute of Metallurgy and
Alloys Processing, Kazakhstan SSR Academy of Sciences, Vol 1) and
kopies printed.
Ed. Yu. N. Kurnetov. Tech. Ed.: Z.P. Borokina;
A.N. Ogorodnikov; V.D. Ponomareva (resp. Ed.). B.M. Lebedev
(Resp. Secretary), and Ye. I. Ponomareva.

PURPOSE: This book is intended for metallurgists and
metallurgical engineers.
COVERAGE: This is a collection of articles dealing with various
aspects of process metallurgy, principally nonferrous, and
properties of slags, etc. Treatment of ore concentrates,
dusts of copper, etc. Topics discussed include pre-
electrolysis, recovery of rare metals from arsenic-
lead-zinc precipitation of lead and zinc, and drying
and roasting of arsenic. Three articles are concerned with
and non-Soviet references.

TABLE OF CONTENTS:

Ponomareva, Ye. I., P.P. Tsybko, Ye. I. Shalavina, L.G. Batyrul, and Yu. N. Moshulin. Extraction of Chromium and Rare Metals from Pyrite Dust at the Lebedev, S. M., and A.K. Loshakova. Concerning the Recovery of Valuable Components From Tailings at the Concentration Plants in the Altay	76
Fleshman, L.O. Electrolytic Precipitation of Lead and Zinc From Alkaline Solutions	88
Zayev, B.M., and O.A. Sururova. Precipitation of Rhenium From Solutions By the Cementation Method	95
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A006/A001

Translation from: Referativnyy zhurnal, Metallurgiya, 1961, No. 2, p. 22, # 2G180

AUTHOR: Plekhanov, L.G.

TITLE: Electrolytic Preparation of High-Purity Indium

PERIODICAL: "Izv. AN KazSSR, Ser. metallurgii, obogashcheniya i ogneuporov",
1960, No. 1, (7), pp. 56 - 58 (Kaz. summary)

TEXT: Information is given on a method of electrolytical refining of In. Deposition of In from the refined solution was conducted in a glass bath with Pb electrodes at 0.5 volt cathode potential and 25°C. the In yield was 94%. The content of impurities (in %) was: Pb 0.05; Tl 0.001, Si 0.001, Cu 0.0001.

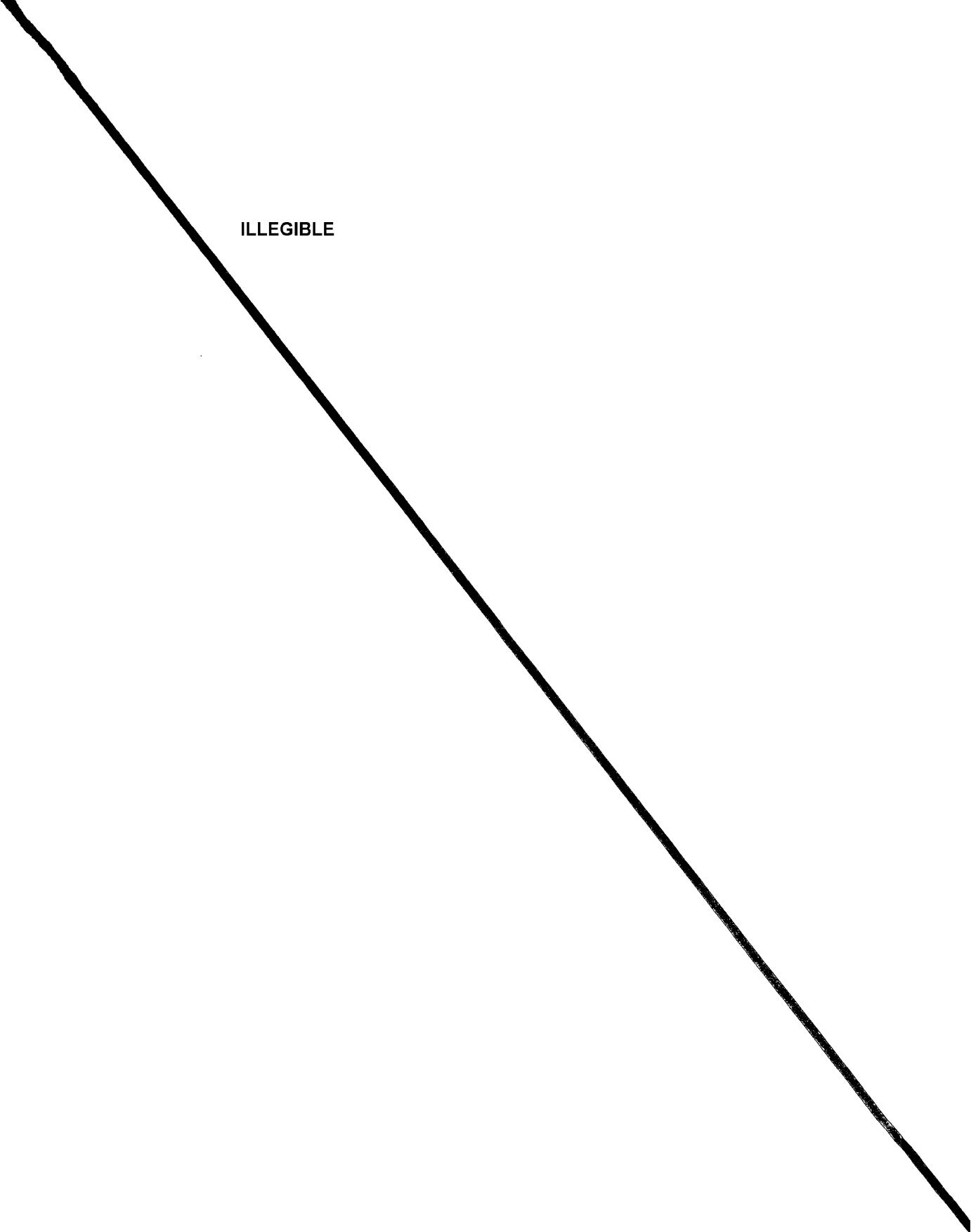
G.S.

Translator's note: This is the full translation of the original Russian abstract.

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ILLEGIBLE



PLEKHANOV, Ivan Petrovich; CHERNYAYKIN, Vladimir Aleksandrovich; PAPNEL',
Sergey Vladimirovich; LESNYAKOV, F.I., red.; GALAKTIONOVA, Ye.N.,
tekhn.red.

[Automobile driver's handbook] Spravochnik shofera. Izd.3.,
perer. i dop. Moskva, Nauchno-tekhn.izd-vo M-va avtomobil'nogo
transp. i shosseinykh dorog RSFSR, 1959. 271 p. (MIRA 13:1)
(Automobile drivers--Handbooks, manuals, etc.)

PLEKHANOV, Ivan Petrovich; PAPMEL', Sergey Vladimirovich ; GRUZINOV, V.I.
redaktor; GAIAKTIONOVA, Ye.N., tekhnicheskiy redaktor.

[Diesel automobiles; driver's manual] Dizel'nye avtomobili;
posobie dlja shofерov. Moskva, Nauchno-tekhn.izd-vo avtotransp.
lit-ry, 1955. 115 p. (MLRA 9:1)
(Diesel engines) (Motor trucks)

PLEKHANOV, I.P.

VOLKOV, G.I.; PLEKHANOV, I.P., inzhener, redaktor; IOFFE, M.L., re-daktor; KONTASHINA, A., tekhnicheskiy redaktor.

[Adjustments on ZIS-150 and ZIS-151 automobiles] Regulirovka
mekhanizmov avtomobilei ZIS-150 i ZIS-151. Moskva, Izd-vo Ministerstva komunal'nogo khozaiistva RSFSR, 1953. 95 p. (MLRA 7:11)
(Automobiles--Maintenance)

PLEKHANOV, Ivan Petrovich; CHERNYAYKIN, Vladimir Aleksandrovich; PAPMEL',
Sergey Vladimirovich; SHESTOPALOV, K.S., redaktor; MAL'KOVA, N.V.,
tekhnicheskiy redaktor

[Truck driver's handbook] Spravochnik shofera. Moskva, Nauchno-
tekhn.izd-vo avtotransp.lit-ry, 1957. 267 p.
(Motortrucks) (MLRA 10:9)

PLEKHANOV, I.P.; PAMEL', S.V.; PETROVSKAYA, Ye.K., redaktor; MANINA, M.P.,
tekhnicheskiy redaktor

[Individual instruction in automobile driving] Individual'noe
obuchenie vozhdenniu avtomobilja. Moskva, Gos.izd-vo "Fizkul'tura
i sport," 1955. 94 p.
(Automobile drivers) (MLRA 9:2)

PLEKHANOV, IVAN PETROVICH

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PLEKHANOV, IVAN PETROVICH

Dizel'nyye avtomobil' (posobiye dlya snoferov) (Diesel automobiles (manual for drivers), by) I. P. Plekhanov (l) S. V. Papmel'. Moscow, Avtotransizdat, 1955.
115 p. illus., diagrs., tables.

PIJKHANOV, I.R.; PAPMEL', S.V.; PETROVSKAYA, Ye.K., red.; SHALYGINA, G.A.,
tekhn.red.

[Individual instruction in automobile driving] Individual'noe
obuchenie vozvdeniiu avtomobilja. Izd. 2-oe, perer. Moskva, Gos.
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(Automobile drivers)

SIMENOV, D.D., master sporta; PLEKHANOV, I.P., inzhener, redaktor; PAP-
MEL', S.V., redaktor; MANINA, N.P., tekhnicheskiy redaktor.

[Construction and repair of bicycles] Ustroistvo i remont velosipeda.
Pod obshchei red. I.P.Plekhanova. Moskva, Gos. izd-vo "Fizkul'tura i
sport," 1954. 165 p.
(Bicycles and tricycles) (MLRA 8:1)

Plakhnov T P

ZAV'YALOV, Stepan Petrovich, shofer ; PLAKHNOV, I.P., red.; ZUYEV, N.K.,
tekhn. red.

[Operation of the MAZ-205 dump truck] Eksploatatsia avtomobilial-
samosvala MAZ-205. Moskva, Nauchno-tekhn. izd-vo avtotransp.
lit-ry, 1957. 45 p.

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(Dump trucks)

KUZNETSOV, Yevgeniy Semenovich. Prinimali uchastiye: KUROPTKOV, V.T.; LEYDERMAN, S.R.; MOSOV, L.I.; PLEKHANOV, I.P.; PLESHAKOVA, T.I.; SALOSHIN, N.P.; SOKOLOV, O.V.; SHIBIN, P.V.; YAKOVLEV, A.V.. MARTEUS, S.L., red.; ZUYEVA, N.K., tekhn.red.

[Efficient conditions for the maintenance of motor vehicles and methods for its improvement] Ratsional'nye rezhimy tekhnicheskogo obsluzhivaniia i metodika ikh korrektirovaniia. Moskva, Avto-transizdat, Pt.1. [Every day and the first maintenance of motor vehicles] Ezhednevnoe i pervoe tekhnicheskoe obsluzhivanie. 1958. 35 p.

(Motor vehicles--Maintenance and repair)

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PLEKHANOV, IVAN PETROVICH

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Spravochnik shofera The driver's handbook, by I. P. Plekhanov,
V. A. Chernyaykin, l S. V. Papmel'.
Moskva, Avtotransizdat, 1957.
267 p. illus., diagrs., tables.
Bibliography: p. 264-265.

PLEKHANOV, Ivan Petrovich; CHERNYAYKIN, Vladimir Aleksandrovich; PAPMEL',
Sergey Vladimirovich; YABLOKOV, V.I., red.; GALAKTIONOVA, Ye.N.,
tekhn.red.

[Handbook for automobile drivers] Spravochnik shofera. Izd. 4-e,
ispr. Moskva, Nauchno-tekhn. izd-vo M-va avtomobil'nogo transporta
i shosseinykh dorog RSFSR, 1960. 288 p. (MIRA 13:10)
(Automobile drivers--Handbooks, manuals, etc.)

KLENNIKOV, Vladimir Mikhaylovich; GRUZINOV, Vasiliy Il'ich [deceased];
PLEKHANOV, I.P., red.; GALAKTIONOVA, Ye.N., tekhn.red.

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pervogo klassa. Izd.2., perer. i dop. Moskva, Nauchno-tekhn.
izd-vo M-va avtomobil'nogo transp. i shosseinykh dorog RSFSR,
1960. 359 p.

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(MIRA 13:11)

VOSTRIKOV, Lev Ivanovich; KOZAREVSKIY, Yevgeniy Ivanovich; PLEKHANOV,
I.P., red.; GALAKTIONOVA, Ye.N., tekhn. red.

[Adjustment of MAZ motortrucks] Regulirovka avtomobilei MAZ.
Moskva, Avtotsentrdat, 1962. 54 p. (MIRA 15:9)
(Motortrucks-Maintenance and repair)

KUZNETSOV, Yevgeniy Semenovich; PLEKHANOV, Ivan Petrovich; PAPMEL',
S.V., red.; MANINA, M.P., tekhn. red.

[Sketches on traffic safety] Ocherki po bezopasnosti dvizhenii.
Moskva, Gos. izd-vo "Fizkul'tura i sport," 1960. 135 p.

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[Maintenance of motor vehicles] Tekhnicheskoe obsluzhivanie av-
tomobilei. Moskva, Nauchno-tekhn. izd-vo M-va avtomobil'nogo
transp. i shosseinykh dorog RSFSR, 1961. 53 p. (MIRA 14:8)
(Motor vehicles—Maintenance and repair)

SABININ, Andrey Aleksandrovich; PLEKHANOV, Ivan Petrovich; CHERNYAYKIN,
Vladimir Aleksandrovich; FILIN, A.G., red.; GALAKTIONOVA, Ye.N.,
tekhn. red.

[Manual for second class automobile drivers] Uchebnik shofera vto-
rogo klassa. Izd.2., perer.i dop. Moskva, Nauchno-tekhn.izd-vo M-va
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(Motor vehicles) (Automobile drivers) (MIRA 14:12)

SABININ, Andrey Aleksandrovich; PLEKHANOV, Ivan Petrovich;
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nik shofera vtorogo klassa. Izd.3., ispr. i dop. Krasnoiarsk,
Krasnoiarskoe knizhnoe izd-vo, 1962. 440 p. (MIRA 15:12)
(Automobile drivers--Education and training)

KUTIKOV, Georgiy Semenovich; PLEKHANOV, I.P., red.; GORYACHKINA, R.A.,
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[Line maintenance work on motor vehicles] Potochnoe tekhnicheskoe
obsluzhivanie avtomobilei. Moskva, Avtotransizdat, 1962. 134 p.
(Motor vehicles--Maintenance and supplies) (MIRA 15:12)

PLEKHANOV, Ivan Petrovich; PAMPEL', Sergey Vladimirovich; LESNYAKOV,
F.I., red.; DONSKAYA, G.D., tekhn. red.

[Diesel motortrucks; driver's manual] Dizel'nye avtomobili; po-
sobie shoferu. Izd.3., perer. Moskva, Avtotransizdat, 1962. 130 p.
(Motortrucks) (MIRA 15:6)

KHERSONSKIY, Semen Grigor'yevich; PLEKHANOV, I.P., red.; BODANOVA,
A.P., tekhn. red.

[Adjustment of the KrAZ motortrucks] Regulirovka gruzovykh
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(Motortrucks. ~Maintenance and repair)

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[Conditions of the maintenance of motor vehicles] Rezhimy tekhnicheskogo obsluzhivaniia avtomobilei. Moskva, Avto-transizdat, 1963. 246 p. (MIRA 16:8)
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VYATKIN, I.I., inzh.; RYSEV, G.S., inzh.; KISLYKH, A.S., inzh.;
PLEKHANOV, G.V., inzh.

Industrial testing of PP-1 mining unit. Gor.zhur. no.2:27-30
(MIRA 16:2)
F '63.

1. Nauchno-issledovatel'skiy i proyektno-konstruktorskiy institut
Gornogo i obogatitel'nogo oborudovaniya, Sverdlovsk (for Vyatkin,
Rysev, Kislykh). 2. Vysokogorskoye rudoupravleniye, Nizhniy Tagil
(for Plekhanov).

(Mining machinery—Testing)

LISIN, Aleksandr Sergeyevich; PLEKHANOV, I.P., red.; GORYACHKINA, R.A.,
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[Laboratory manual on the maintenance of motor vehicles] La-
boratornyi praktikum po tekhnicheskому obsluzhivaniyu avto-
mobilei. Moskva, Avtotransizdat, 1962. 162. p.
(MIRA 16:4)

(Motor vehicles--Maintenance and repair)

SHESTOPALOV, K.S.; YEFREMOVA, Ye.V., red.; PLEKHANOV, I.P., red.

[Fitting and assembling work and the maintenance of a
motor vehicle] Slesarno-montazhnye raboty i tekhnicheskoe
obsluzhivanie avtomobilja. Moskva, DOSAAF, 1964. 267 p.
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MOROZOV, Nikolay Dmitriyevich; SHESTOPALOV, Konstantin Sergeyevich;
PLEKHANOV, I.P., red.

[Operation and repair of motor vehicles] Ekspluatatsiya i
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(MIRA 18:7)

SABININ, Andrey Aleksandrovich; PLEKHANOV, Ivan Petrovich;
CHERNYAYKIN, Vladimir Aleksandrovich; YAKOVLEV, G.M.,
red.

[Manual for the driver of the second class] Uchebnik shosse
séra vtorogo klassa. Moscow, Transport, 1965. 393 p.
(MIRA 18:9)

LOSAV10, Georgiy Simonovich; BIEKHANOV, I.P., red.

[Starting motor-vehicle engines without preheating] iusk
avtomobil'nykh dvigatelei bez rezogreva. Koskyn, Transport,
1965. 101 p.
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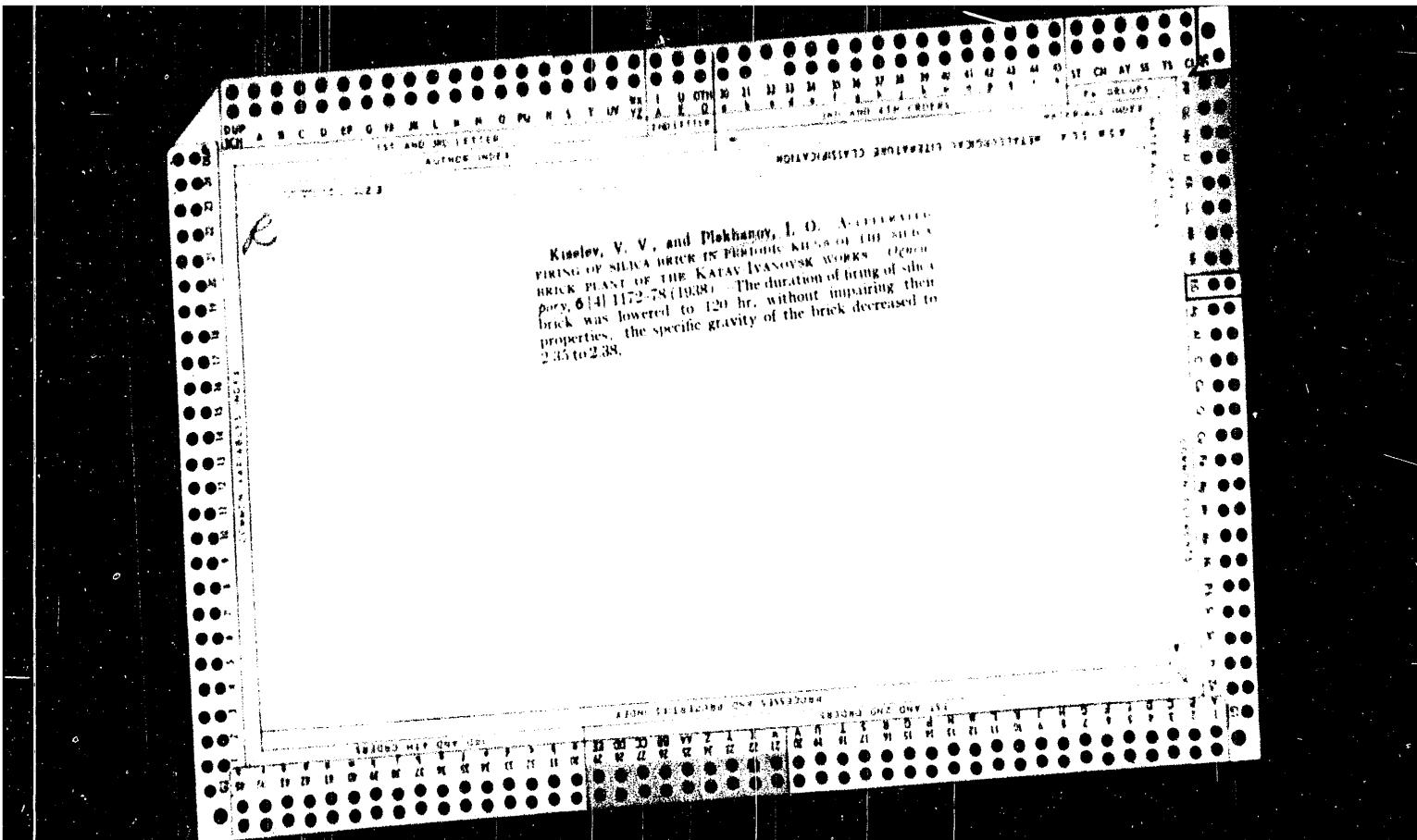
PIEKHANOV, I.P.

Reviews and bibliography. Avt. i transp. 42 no.12/55 p. 104.
(MIA 1834)

1. Nachal'nik laboratori passazhirskikh avtomobilev Gosudarstven-
nogo nauchno-issledovatel'skogo Instituta avtomobil'nogo transporta.

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001341200016-6

R
Kiselev, V. V., and Pleshchany, L. O. ACCELERATED
FIRING OF SILICA BRICK IN PLAIN AND KERAMIC COATINGS
BRICK PLANT AT THE KATAV IVANOVSK WORKS. (Original
copy, 6[4] 1172-78 (1938). - The duration of firing of silica
brick was lowered to 120 hr. without impairing their
properties; the specific gravity of the brick decreased to
2.35 to 2.38.



PLEKHANOV, I. O.

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Kiselev, V. V. and Plekhanov, I. O. Accelerated
firing of silica brick in refractory kilns of the silica
brick plant of the Kuzav Ivanovsk district. Chel.-
kov, 6 [1] 147 (1939). The duration of firing of silica
brick was lowered to 120 hr without impairing their
properties; the specific gravity of the brick decreased to
2.33 to 2.38.

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001341200016-6

Accelerated firing of silica brick in periodic kilns of the
silica brick plant of the Katav-Ivanovsk works. V. V.
Kiselev and I. O. Plekhanov. *Ogneupory* 6, 1172-8
(1980). E. E. Stefanowsky

ASH-SLA METALLURGICAL LITERATURE CLASSIFICATION

CLASSIFICATION

EXEMPTIONS

EXEMPTIONS

P2 E 12 38 49 46 V 100
KUZNETSOV, Ya., head (head of department) of the MVD, Leningrad.
Informer

"...to improve conditions, more reliable repairs are needed"
by N.I. Neiberg, service of maintenance, Leningrad Avt. transp.
35 no. 6:38-39 Je '57. (MERA 10:7)
(Automobiles-maintenance and repair) (Neiberg, F.Ya.)

SHESTOPALOV, Konstantin Sergeyevich; YEFREMOVA, Ye.V., red.; PLEKHANOV,
I.I., red.; KARYAKINA, M.S., tekhn.red.

[Bench and fitting work and maintenance of motor vehicles]
Slesarno-montazhnye raboty i tekhnicheskoe obsluzhivanie avto-
mobilja. Moskva, Izd-vo DOSAAF, 1960. 237 p. (MIRA 13:7)

(Motor vehicles--Maintenance and repair)

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KUZNETSOV, A., kand. tekhn. nauk; PLEKHANOV, I., inzh.; SALOSHIN, N., inzh.
Motor vehicles maintenance and traffic safety. Za besop. dvizh.
no.5:5-7 0 '58. (MIRA 11:12)
(Automobiles--Maintenance and repair)
(Traffic safety)

TOKAREV, G.; BLATNOV, M.; PLEKHANOV, I.

Technical and operational requirements of taxicabs. Avt.transp. 40
no.1:35-38 Ja '62. (MIRA 15:1)

1. Nauchno-issledovatel'skiy institut avtomobil'nogo transporta.
(Taxicabs)

GADZHIYEV, S.M., otv. red.; ALIVERDIYEV, A.A., doktor biol. nauk,
red.; PLEKHANOV, N.I., kand. biol. nauk, red.; RUKHLYADEV,
D.P., kand. veter. nauk, red.; SHAKHMARDANOV, Z.A., kand.
veter. nauk, red.; EMIRBEKOV, E.Z., kand. biol. nauk, red.

[Problems of physiology, biochemistry, zoology and para-
sitology; collection of papers of the Departments of Zoology
and Organic and Biological Chemistry] Voprosy fiziologii,
biokhimii, zoologii i parazitologii; sbornik nauchnykh so-
obshchenii kafedry zoologii i kafedry organicheskoi i bio-
gicheskoi khimii. Makhachkala, Dagestanskoe knizhnoe izd-
vo, 1965. 168 p. (MIRA 19:1)

1. Makhach-Kala. Dagestanskiy gosudarstvennyy universitet.

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PLEKHANOV, G. V., VOLKOVSKAYA, I. L., and LAPSHIN, I. I.

"Bactericidal and fungicidal properties of smoke solution"

report submitted for the 2nd. Intl. Conf. on Advances in the Engineering of
the Smoke Curing Process, Gdansk, Poland
15-20 November 1960

PLEKHANOV, G.V.; PODVYSOTSKIY, K.S.; MEL'NIKOV, V.M.

Review of the book "Mine brattices" by IA. Z. Bukhman and P.G.
Molotkov. Gor. zhur. no.6:80 Je '63. (MIRA 16:7)

1. Glavnyy inzh. shakhty "Magentitovaya" Vysokogorskogo zheleznogo
rudnika (for Plekhanov). 2. Komandir 4-go Voyenizirovannogo
gornospasatel'nogo otryada Vysokogorskogo zheleznogo rudnika
(for Podvysotskiy). 3. Nachal'nik ventilyatsii shakhty
"Magentitovaya" (for Mel'nikov).
(Mine ventilation)
(Bukhman, IA.Z.) (Molotkov, P.G.)

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GURKOV, K.S., kand.tekhn.nauk; KOSTYLEV, A.D., kand.tekhn.nauk;
PLEKHANOV, G.V., gornyy inzh.; CHERNOGOLOV, Ye.K., gornyy inzh.;
RZHANNIKOV, N.N., gornyy inzh.

New loading and transporting machine. Gor.zhur. no.2:57-59 F
'64. (MIRA 17:4)

1. Institut gornogo dela Sibirskogo otdeleniya AN SSSR (for Gurkov,
Kostylev). 2. Vysokogorskly zheleznyy rudnik (for Plakhanov,
Chernogolov, Rzhannikov).

PLEKHANOV G. V.

PLEKHANOV, G. V. and LAPSHIN I. I.

"New technology of cold smoking of fish using smoke solution"

report submitted for the 2nd. Intl. Conf. on Advances in the Engineering of the
Smoke Curing Process, Gdansk, Poland,
15-19 November 1960

MURZIN, G.A.; POSTONOGOB, A.A.; KRALIN, V.A.; BESKLUBOV, V.P.; PLEKHANOV, I.T.

Device for charging deep blast holes. Gor. zhur. no.1:59-62 Ja '64.
(MIRA 17:3)

1. Nauchno-issledovatel'skiy i proyektno-konstruktorskiy institut
gornogo i obogatitel'nogo mashinostroyeniya (for Murzin, Postonogov,
Kralin, Besklubov). 2. Vysokogorskoye rudoopravleniye (for Ple-
khanov).

DANCHEV, P.S.; VETLUZHESKIEH, V.P.; PLEKHANOV, G.V.

Using short-delay blasting in breaking ore by the detonations
of borehole charges at the "Magnetita" Mine, Varyv, telo
no. 55/12;267-274-164.
(MIRA 17:10)

1. Institut gornogo dela Gosmetallurgkomiteta (for Danchev,
Vetluzhskikh). 2. Shakhta "Magnetitovaya" Vysskogorskogo
mestorozhdeniya (for Plekhanov).

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ACCESSION NR: AB5010134

sustenitization which starts as a rule, in sections enriched with carbon. The lowest values of impact strength were observed in specimens in which the austenite transformation proceeds with formation of the intermediate structures. The varied overall level of impact strength of the melts is connected with contamination of the metal by nonmetallic inclusions, i.e., the metallurgical nature of melting. Orig. art. has: 1 table, 3 graphs.

ASSOCIATION: Ukrainskiy nauchno-issledovatel'skiy trubnyy institut (Ukrainian Scientific Research Pipe Institute)

SUBMITTED: CO

ENCL: 00

SUB CODE: MM

NO REF Sov: 002

OTHER: 001

JPRS

Card 2/2

1. 10116-65-007(1)/207(2)/207(3)/207(4)/207(5)/207(6)/207(7) 207(8)
ACCESSION NN: AF5010134 UR/0096/64/000/011/0060/0063

AUTHOR: Radchenko, R. P. (Candidate of technical sciences); Flekhanov, G. P.
(Engineer)

TITLE: Investigation of the austenite transformation and physical and mechanical
properties of 12Kh1MF steel

SOURCE: Teploenergetika, no. 11, 1964, 60-63

TOPIC TAGS: steel, metal property, austenitic steel/ 12Kh1MF steel

Abstract: The article shows that the kinetics of the austenite transformation during continuous cooling of 12Kh1MF steel has a complex scheme, i.e., at a given cooling rate the decomposition of the austenite proceeds with the formation of ferrite, pearlite, intermediate structures and martensite, and there also is up to 12-14% retained austenite. The maximum quantity of retained austenite (14%) originates at cooling rates matching the formation of the intermediate structure of the granular texture. Steel 12Kh1MF is very sensitive to the tempering temperature. A given tempering interval at 740-760°C is close to the lower critical point α_c . Consequently, the slightest excess of the tempering temperature (which is fully possible in plant units) leads to isolated

Card 1/2

RACHENKO, R.P., kand. tekhn. nauk, TURKINOV, G.P., inzh.

Study of the transformation of austenite and the physical
and mechanical properties of 12KhVG steel. Department of
11 no.11:60-63 N 162. (Kiev) 1972

I. Ukrainskiy nauchno-issledovatel'skiy trubnyy zavod.

PLEKHANOV, G.F.; VASIL'YEV, N.V.; DEMIN, D.V.; ZHURAVLEV, V.K.; ZENKIN, G.M.; KOVALEVSKIY, A.F.; L'VOV, Yu.A.; FAST, V.G.; TUL'SKIY, A.S. [deceased]

Some results of the study of the problem of the Tunguska meteorite.
Geol.i geofiz. no.1:111-123 '63. (MIRA 16:4)

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Tomskogo politekhnicheskogo instituta i Institut geologii i geofiziki
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(Podkamennaya Tunguska Valley--Meteorites)

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PLEKHANOV, G.F.; VASIL'YEV, N.V.; KOSHELEV, V.A.

Search for the Tunguska meteorite continues. Nauka i zhizn' 28
no.5: 76-79 My '61. (MIRA 14:6)
(Podkamennaya Tunguska Valley—Meteorites)
(Comets)

PLEKHANOV, G.F.; KOVALEVSKIY, A.F.; ZHURAVLEV, V.K.; VASIL'YEV, N.V.

Effect of the explosion of the Tunguska meteorite on the geomagnetic field. Geol. i geofiz. no.6:94-96 '61. (MIRA 14:7)

1. Problemnaya laboratoriya radiofiziki Tomskogo universiteta ;
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(Tunguska Valley--Meteorites)
(Magnetism, Terrestrial)

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AUTHORS: Plekhanov, G. F., Kovalevskiy, A. F., Zhuravlev, V. K., Vasil'yev, N.V.

TITLE: On the effect of Tungusska meteorite explosion on geomagnetic field

PERIODICAL: Referativnyy zhurnal, Astronomiya i Geodeziya, no. 7, 1962, 81 - 82,
abstract 7A585 ("Geologiya i geofizika", 1961, no. 5, 94 - 96)

TEXT: On June 30, 1908, at 0 hr 20.0 1.2 min UT, i.e., 2.8 min after the explosion, the H-component at Irkutsk rose by 23.5μ during 1 hr 20 min, then decreased by 67μ and restored during 2-3 hours. A negative bay of the Z-component, up to 25.5μ deep, lasted from 0 hr 18.6±1.5 min until 2 hr. The phenomenon was nowhere more noted, according to 18 world observatories. Magnetic disturbance is similar to effects observed during air explosions of nuclear bombs on August 1 and 12, 1958, over the Johnston Island recorded at Honolulu, Palmir, etc. A sudden commencement, H-variation form, and local character are similar features. However, there is no delay at nuclear explosions, and duration of disturbances is less (1 - 1 1/2 hr). The Tungusska disturbance can be explained by a magnetohydrodynamic wave which arose due to an air shock wave in the E layer of the ionosphere and subsequent dynamo currents. I. Zotkin

[Abstracter's note: Complete translation]
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PLIUKHANOV, G.F.; KOVALEVSKIY, A.F.; ZHURAVLEV, V.K.; VASIL'YEV, N.V.

Geomagnetic effect of the burst of the Tunguska meteorite. Izv.
vys.ucheb.zav.;fiz. no.2:236-237 '60. (MIRA 13:8)

1. Tomskiy gosuniversitet im. V.V.Kuybysheva i Betatronnaya laboratoriya
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(Tunguska Valley--Meteorites) (Magnetism, Terrestrial)

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Some results of the work of a joint self-acting expedition
for studying the problem of the Tunguska meteorite.
Meteoritika no.24:170-176 '64. (MIRA 17:5)

Some results of

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EO32/E314

energy was converted into the energy of the explosion. This hypothesis is not fundamentally different from that put forward by V.G. Fesenkov (cometary hypothesis). It is suggested that the differences may be of terminological origin. This must be investigated further. There are 1 figure and 1 table.

ASSOCIATIONS:

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SUBMITTED:

April 9, 1962

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EO32/E314

Some results of

earlier measurements revealed traces of fall-out due to American nuclear tests in 1958. Analysis of these and other published data leads the authors to suggest the following working hypothesis. In the middle of June, 1958, the Earth passed through a cosmic-dust cloud which entered the atmosphere and sedimented between 55 and 65° N. On reaching the lower layers of the atmosphere, dust particles gave rise to anomalous airglow and development of noctiluscent clouds at isolated points in Europe between June 22 and 29. The amount of dust was not, however, too great and hence the optical anomalies associated with it were localized and there was no change in the polarization of the day sky. In the morning of June 30, the Earth entered the part of the cloud containing large dust-particle clusters and the penetration of these clusters into the lower layers gave rise to a change in the polarization and the appearance of a solar halo and noctiluscent clouds. At the same time, a major meteoritic body entered the atmosphere. The resistance experienced by the body (dense swarm of particles) increased rapidly at the boundary of the troposphere with the result that the body was decelerated and the available magnetic

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